

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	571	438/57.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:17
L4	28	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same MOS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:18
L5	21	L4 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:18
L6	21	L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:18
L7	8	("4074302"   "4984045"   "5223725"   "5229630"   "5357128").PN. OR ("5652442").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 00:29
L12	48	((buried adj channel) with (surface adj channel)).clm. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:35
L13	81	((TAKESHI) near2 (ICHIKAWA)).INV.	US-PGPUB; USPAT	OR	OFF	2009/12/17 00:39
L14	1	((buried near channel) and (MOS near transistor) and (surface near channel) and (first near conductive) and (first near conductive near type near impurity near region) and channel).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:48

L15	217	438/59.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:49
L16	756	438/73.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:49
L17	717	257/291.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:52
L18	807	257/292.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:52
L19	235	438/57.cor. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 00:54
L20	1280	"257"/e27.132.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:00
L21	1	"10585733"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L22	31	toshiba.asn. and (azuma near atsushi).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L23	221	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L24	175	L23 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L25	2	"5438211".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L26	12	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L27	28	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same MOS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L28	21	L4 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L29	23	("4032952"   "4229752"   "4513313").PN. OR ("4668971").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L30	221	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L31	175	L30 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L32	154	L31 not L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L33	148	L32 and (buried adj channel) and (surface adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L34	110	L32 and ((buried adj channel) same (surface adj channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L35	23	("4498013"   "5027177"   "5208476"   "5235197"   "5286987"   "5324669"   "5488251"   "5500383"   "5567632"   "5572051"). PN. OR ("5880494"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L36	65	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L37	6	((image near sensor) or (CMOS near sensor)) and (((buried adj channel) and (surface adj channel) with MOS) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L38	17	((buried adj channel) and (surface adj channel)).ti. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L39	133	((buried adj channel) and (surface adj channel)).ab. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L40	148	((buried adj channel) and (surface adj channel)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L41	2	"2000353756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L42	3	"2002329793"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L43	3	(LNR and LPR and HNR). ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L44	0	(photoelectric and pixel and transistor and sbstrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L45	1	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L46	13	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L47	49	("5051797"   "5306931"   "5625210"   "5880495"   "5898168"   "5898196"   "5903021").PN. OR ("6100551").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L48	5	("20010013899"   "20060158541"   "5438211"   "6150682"   "7102677").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13

L49	12	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L50	2	("20040263657").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
L51	3	("20020027189"   "5438211"   "6833870"). PN. OR ("7244971"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L52	1	438/73.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L53	2	438/57.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L54	1	438/59.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L55	4	438/60.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L56	2	438/78.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L57	363	"438"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L58	914	"257"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L59	14	"257"/291.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L60	12	"257"/292.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L61	0	"257"/e21.412.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L62	291	"257"/e21.412.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L63	2	"5512771".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
L64	1	L63 and (buried adj channel) and (surface adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
L65	2	"2000077613"	DERWENT	OR	ON	2009/12/17 01:13
L66	1	"6337248".pn.	DERWENT	OR	ON	2009/12/17 01:13
L67	2	"2002329793"	DERWENT	OR	ON	2009/12/17 01:13
L68	1	"6740939".pn.	DERWENT	OR	ON	2009/12/17 01:13

L69	1	"2000353756"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/12/17 01:13
L70	109	((buried adj channel) same (surface adj channel) same implant) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L71	170	((buried adj channel) same (surface adj channel) same (NMOS or PMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L72	117	((buried adj channel) with (surface adj channel) with (NMOS or PMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L73	117	((buried adj channel) with (surface adj channel) with (NMOS or PMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L74	32	((buried adj channel) near3 NMOS) same ((surface adj channel) near3 NMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L75	6	("4385337"   "5886862"   "6369998").PN. OR ("6665160").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L76	10	("4743841"   "5407865"   "5612557"   "5793321"   "5797999"   "5835387"   "6025219"   "6139791"   "6373097").PN. OR ("6653694").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L77	53	((depletion adj mode) near3 NMOS) same ((enhancement adj mode) near3 NMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13



L78	5	L77 and (channel with implant)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L79	1	"10585733"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L80	31	toshiba.asn. and (azuma near atsushi).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L81	221	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L82	175	L81 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L83	2	"5438211".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L84	12	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L85	28	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same MOS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L86	21	L85 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L87	23	("4032952"   "4229752"   "4513313").PN. OR ("4668971").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L88	221	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L89	175	L88 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L90	154	L89 not L86	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L91	148	L90 and (buried adj channel) and (surface adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L92	110	L90 and ((buried adj channel) same (surface adj channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L93	23	("4498013"   "5027177"   "5208476"   "5235197"   "5286987"   "5324669"   "5488251"   "5500383"   "5567632"   "5572051").PN. OR ("5880494").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L94	65	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L95	6	((image near sensor) or (CMOS near sensor)) and (((buried adj channel) and (surface adj channel) with MOS) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L96	17	((buried adj channel) and (surface adj channel)).ti. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L97	133	((buried adj channel) and (surface adj channel)).ab. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L98	148	((buried adj channel) and (surface adj channel)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L99	2	"2000353756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L100	3	"2002329793"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L101	3	(LNR and LPR and HNR).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L102	0	(photoelectric and pixel and transistor and sbstrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L103	1	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L104	13	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L105	49	("5051797"   "5306931"   "5625210"   "5880495"   "5898168"   "5898196"   "5903021").PN. OR ("6100551").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L106	5	("20010013899"   "20060158541"   "5438211"   "6150682"   "7102677").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L107	12	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L108	2	("20040263657").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
L109	3	("20020027189"   "5438211"   "6833870").PN. OR ("7244971").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/12/17 01:13
L110	1	438/73.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L111	2	438/57.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L112	1	438/59.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L113	4	438/60.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L114	2	438/78.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L115	363	"438"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L116	914	"257"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L117	14	"257"/291.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L118	12	"257"/292.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L119	0	"257"/e21.412.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L120	291	"257"/e21.412.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13
L121	1	"948056"	EPO	OR	ON	2009/12/17 01:13
L122	7	((buried adj channel) same (surface adj channel)) and (CMOS near sensor) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/17 01:13

L123	2	"6747318".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
L124	14	"10020304"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
L125	1	"10/020304"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/12/17 01:13
S1	1	"10585733"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 20:35
S2	29	toshiba.asn. and (azuma near atsushi).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/25 20:43
S3	205	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/27 00:42
S4	174	S3 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/27 00:43
S5	2	"5438211".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 11:55
S6	11	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/08 11:57

S7	27	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same MOS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 15:17
S8	21	S7 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 15:17
S9	23	("4032952"   "4229752"   "4513313").PN. OR ("4668971").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/08 15:50
S10	205	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 16:06
S11	174	S10 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 16:06
S12	153	S11 not S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 16:06
S13	147	S12 and (buried adj channel) and (surface adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 16:11
S14	110	S12 and ((buried adj channel) same (surface adj channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/08 16:12
S15	22	("4498013"   "5027177"   "5208476"   "5235197"   "5286987"   "5324669"   "5488251"   "5500383"   "5567632"   "5572051").PN. OR ("5880494").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/08 16:21

S16	65	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 12:46
S17	6	((image near sensor) or (CMOS near sensor)) and (((buried adj channel) and (surface adj channel) with MOS) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 13:01
S18	17	((buried adj channel) and (surface adj channel)).ti. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 13:06
S19	133	((buried adj channel) and (surface adj channel)).ab. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 13:11
S20	147	((buried adj channel) and (surface adj channel)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 13:56
S21	2	"2000353756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 14:00
S22	3	"2002329793"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 14:02
S23	3	(LNR and LPR and HNR).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 14:06



S24	0	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 14:12
S25	1	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 14:12
S26	13	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 14:13
S27	44	("5051797"   "5306931"   "5625210"   "5880495"   "5898168"   "5898196"   "5903021").PN. OR ("6100551").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/09 14:52
S28	5	("20010013899"   "20060158541"   "5438211"   "6150682"   "7102677").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/09 15:13
S29	11	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/09 15:23
S30	2	("20040263657").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/11/09 15:40
S31	3	("20020027189"   "5438211"   "6833870").PN. OR ("7244971").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/11/09 16:13
S32	1	438/73.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:25
S33	2	438/57.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:27

S34	1	438/59.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:27
S35	4	438/60.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:27
S36	2	438/78.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:29
S37	361	"438"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:29
S38	915	"257"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:30
S39	14	"257"/291.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:31
S40	12	"257"/292.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:31
S41	0	"257"/e21.412.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:32

S42	294	"257"/e21.412.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/11/09 17:33
S43	2	"5512771".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/07 20:31
S44	1	S43 and (buried adj channel) and (surface adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/07 20:36
S45	2	"2000077613"	DERWENT	OR	ON	2009/06/07 21:22
S46	1	"6337248".pn.	DERWENT	OR	ON	2009/06/07 21:29
S47	2	"2002329793"	DERWENT	OR	ON	2009/06/07 22:26
S48	1	"6740939".pn.	DERWENT	OR	ON	2009/06/07 22:28
S49	1	"2000353756"	US-PGPUB; USPAT; DERWENT	OR	ON	2009/06/07 23:06
S50	109	((buried adj channel) same (surface adj channel) same implant) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/07 23:17
S51	170	((buried adj channel) same (surface adj channel) same (NMOS or PMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/07 23:27
S52	117	((buried adj channel) with (surface adj channel) with (NMOS or PMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/07 23:28

S53	117	((buried adj channel) with (surface adj channel) with (NMOS or PMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/07 23:29
S54	32	((buried adj channel) near3 NMOS) same ((surface adj channel) near3 NMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/07 23:42
S55	6	("4385337"   "5886862"   "6369998").PN. OR ("6665160").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 00:42
S56	10	("4743841"   "5407865"   "5612557"   "5793321"   "5797999"   "5835387"   "6025219"   "6139791"   "6373097").PN. OR ("6653694").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 00:45
S57	53	((depletion adj mode) near3 NMOS) same ((enhancement adj mode) near3 NMOS)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 00:51
S58	5	S57 and (channel with implant)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 00:52
S59	1	"10585733"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S60	31	toshiba.asn. and (azuma near atsushi).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S61	211	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03

S62	175	S61 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S63	2	"5438211".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S64	12	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:03
S65	27	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same MOS)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S66	21	S65 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S67	23	("4032952"   "4229752"   "4513313").PN. OR ("4668971").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:03
S68	211	((image near sensor) or (CMOS near sensor)) and (buried near channel) and (surface near channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S69	175	S68 and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S70	154	S69 not S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03

S71	148	S70 and (buried adj channel) and (surface adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S72	110	S70 and ((buried adj channel) same (surface adj channel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S73	23	("4498013"   "5027177"   "5208476"   "5235197"   "5286987"   "5324669"   "5488251"   "5500383"   "5567632"   "5572051"). PN. OR ("5880494"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:03
S74	65	((image near sensor) or (CMOS near sensor)) and (((buried near channel) and (surface near channel)) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S75	6	((image near sensor) or (CMOS near sensor)) and (((buried adj channel) and (surface adj channel) with MOS) same substrate) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S76	17	((buried adj channel) and (surface adj channel)).ti. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S77	133	((buried adj channel) and (surface adj channel)).ab. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03
S78	148	((buried adj channel) and (surface adj channel)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:03

S79	2	"2000353756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S80	3	"2002329793"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S81	3	(LNR and LPR and HNR). ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S82	0	(photoelectric and pixel and transistor and sbstrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S83	1	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S84	13	(photoelectric and pixel and transistor and substrate and (buried adj channel) and (surface adj channel)) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S85	47	("5051797"   "5306931"   "5625210"   "5880495"   "5898168"   "5898196"   "5903021").PN. OR ("6100551").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:04
S86	5	("20010013899"   "20060158541"   "5438211"   "6150682"   "7102677").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:04
S87	12	("4984045").PN. OR ("5438211").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:04

S88	2	("20040263657").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/06/08 01:04
S89	3	("20020027189"   "5438211"   "6833870"). PN. OR ("7244971"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/08 01:04
S90	1	438/73.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S91	2	438/57.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S92	1	438/59.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S93	4	438/60.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S94	2	438/78.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S95	363	"438"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S96	914	"257"/\$.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04



S97	14	"257"/291.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S98	12	"257"/292.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S99	0	"257"/e21.412.ccls. and (buried adj channel) and (surface adj channel) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S100	291	"257"/e21.412.ccls. and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 01:04
S101	1	"948056"	EPO	OR	ON	2009/06/08 02:11
S102	7	((buried adj channel) same (surface adj channel)) and (CMOS near sensor) and @ad<"20040330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/06/08 02:51
S103	2	"6747318".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/28 19:09
S104	12	"10020304"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/28 19:10
S105	1	"10/020304"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/28 19:10

12/ 17/ 2009 1:18:13 AM

**C:\ Documents and Settings\ sahmed7\ My Documents\ EAST\ Workspaces\ 10585733.wsp**